


**FLUORINE-CONTAINING POLYIMIDE AND PRODUCTION THEREOF**

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**Abstract**

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**PURPOSE:** To provide a fluorine-containing polyimide having a small thermal expansion coefficient, dielectric constant and refractive index by reacting a specific tetracarboxylic acid anhydride containing fluorine-substituted groups with a diamine.  
**CONSTITUTION:** (A) An acid anhydride of formula I (R1 is a tetravalent organic group of formula II or III) is reacted with (B) a diamine of formula IV (R2 is p-phenylene, group of formula V, group of formula VI, etc.,) to provide (C) the objective fluorine-containing polyimide having repeating units of formula VII.

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